

HELMUT
SCHMIDT
CNC - Turning & Milling





Metallbearbeitung Helmut Schmidt GmbH

Since more than 45 years we have been manufacturing sophisticated parts in series production and as prototypes.

Our production is based on drawings, files provided, samples or also hand-drawn sketches. Our customer base includes companies operating in the following sectors inter alia:

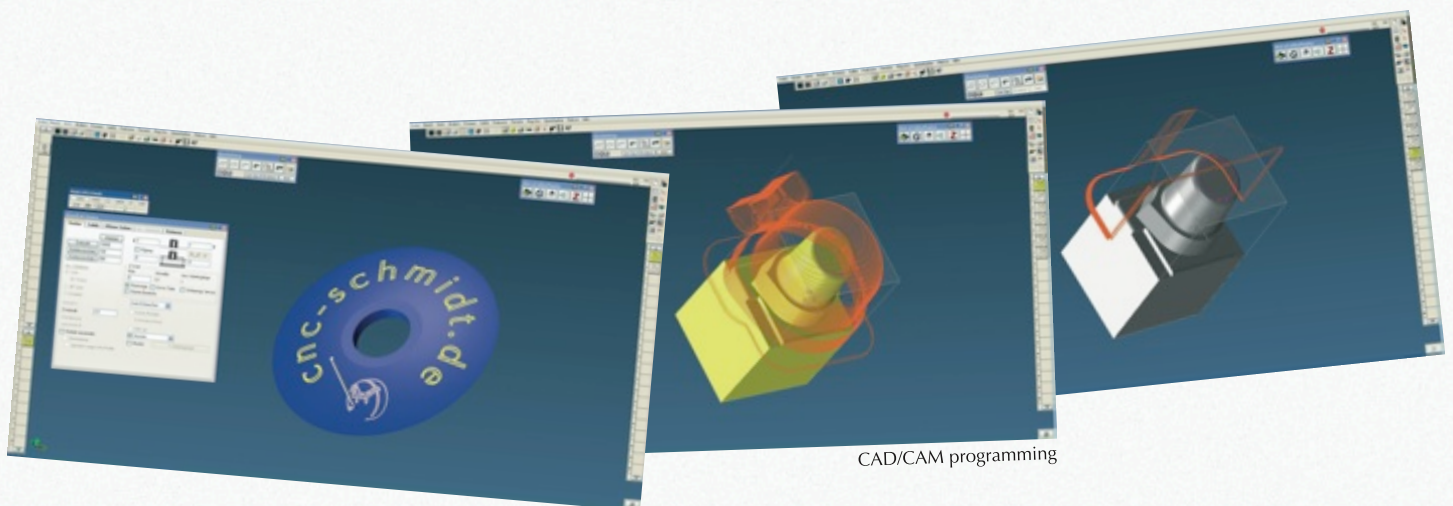
- mechanical engineering
- plant engineering
- tool and mould making
- vehicle construction

By this brochure, we wish to document the solid technical and handcraft knowledge of our employees for you.

We would be happy to make an appointment with you in your or our company and are looking forward meeting you.

Uwe Schmidt
Geschäftsführung

André Schmidt
Geschäftsführung



CAD/CAM programming



Services

As owner-operated company, we produce high-quality turned and milled parts with 10 employees and technically up-to-date machinery.

Thanks to flexible working times we offer you maximum freedom in the planning of delivery times. We have available a comprehensive material storage to guarantee a quick and smooth processing of your orders.

Our portfolio includes all materials which we process on modern CNC machines - from steel, V2A, V4A via titanium, aluminium, and bronze to plastics...

We have several conventional turning and milling machines for the production of individual parts and prototypes. Also large diameters of up to 1,320 mm and a workpiece weight of up to 1,000 kg are no problem for us in view of the available equipment.

All CNC machines are linked in a DNC network with a programming station which is equipped with 3D visualised control software. All common file formats can be processed.

We implement the high quality finish in cooperation with reliable partner companies with whom we have long-term relations for:

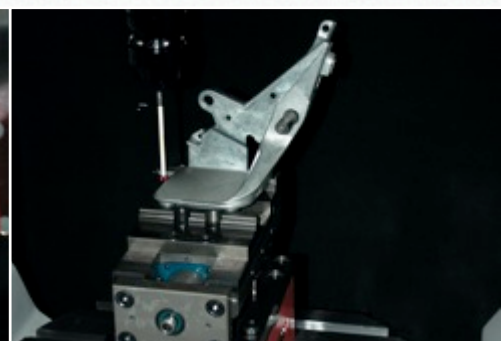
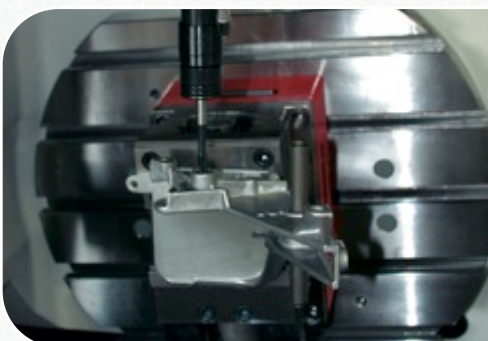
- surface treatment or hardening operations,
- steel metal working,
- tothing,
- foundry / processing of castings.

In our company, the personal contact and a competent advice of our customers as well as the customised execution of orders are of great importance.

On request, we offer a full service for your parts - from the manufacture to the assembly of the correspondingly finished parts.

Furthermore, our company produces spare parts for plants or equipment and carries out repair work and maintenance operations at your industry systems or machine tools.

We would be happy if you benefit from the experience and expertise of our employees - which saves you time and money.





CNC Turning and Milling

CNC Turning

We produce small and medium-size batches on modern CNC lathes.

Thanks to flexible set-up times we are able to meet your delivery dates at short-term in case of an urgent need. We process any material - from steel, V2A, V4A, titanium, aluminium, bronze to plastics (...) - on our systems.

With a high demand on precision we produce:

- turning diameters from 4 to 420 mm
- turned parts from bar stock up to Ø 65 mm
- turning lengths of up to 750 mm
- with a max. workpiece weight of 500 kg

Our CNC lathes are equipped with:

- power chucks of two, three and four jaws and collet chucks
- part catchers
- integrated tool measuring



CNC Milling

Our CNC milling machines are perfectly suited for the production of your individual items and small series. Thanks to the high standards of programming comfort, we are able to manufacture especially demanding parts by automated processes. Furthermore, the short set-up times of these systems make a production of your order possible even with short-term delivery dates.

We process the common materials:

- steel
 - V2A
 - V4A
 - titanium
 - aluminium
 - magnesium
 - bronze
 - plastic
- (other materials on request)

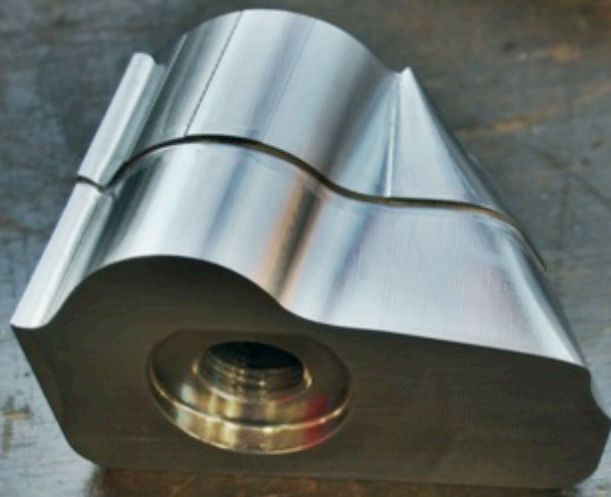
Our technical possibilities:

- working range: 1120 mm / y 510mm / z 510mm
- 4/5 axes, maximum height 140mm
- maximum workpiece weight 500 kg

Our CNC milling machines have the following special features:

- 5 and/4 axes
- 15 bar (internal coolant supply)
- Renishaw 3D button
- Magnetic table





Other Services



Conventional Turning

Different lathes of conventional design complement our machinery. We are able to meet our customers' requirements for special sizes, quality and quantity which we can meet at a favourable price on a machine which is optimal for the production.

We offer our customers:

- turning diameters from 2 to 800 mm
- a max. workpiece weight from 1,000 kg
- a maximum spindle opening of 130 mm
- turning lengths of up to 3,000 mm

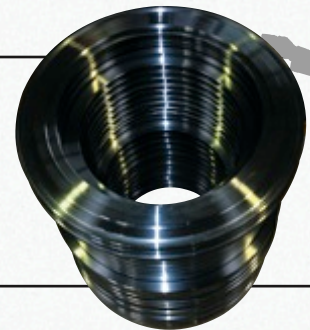
All common materials can be processed.

Head Turning

We turn rings, flanges, sheaves (and others) - with a diameter of 420mm 1,320mm - on our head lathes.

Your workpiece weight should not exceed 1 ton.

All common materials can be processed.



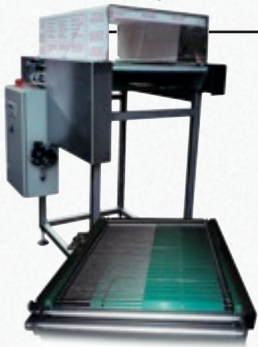
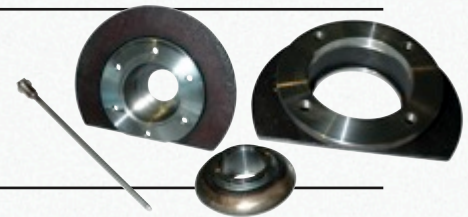
Assembly

We would be happy to coordinate the production of your machinery or components from the planning to the ready-to-use product.

We mount the parts produced in our company to subassemblies, machines or products ready-for-dispatch according to your instructions.

Welding

We realise welded constructions for a further processing by turning, milling made of steel, nickel-chrome steels, aluminium and other compounds among each other according to the instructions of our customers.



Full Service

Furthermore, we offer a complete handling of:

- surface treatment (chromium-plating, coating, painting)
- tothing operations
- repair work and spare part procurement for plants and equipment of any type
- hardening processes

We also carry out complete maintenance and repair operations at industry plants and machine tools.



CNC Systems in our Inventory

CNC milling machines

Mazak Variaxis VRX 500-5X
Machining centre
Working range:
x 510 mm / y 510 mm / z 460 mm
equipped with 5th axis



CNC milling machines

Mazak VTC 200 B
Machining centre
Working range:
x 1120 mm / y 510mm / z 510mm
equipped with 4th axis, 15 bar internal
coolant supply and Renishaw 3D button



CNC milling machines

Hurco VMX 1
Working range:
x 660 mm / y 355 mm / z 455 mm
Spindle speed: 10,000 rpm



CNC lathes

**MAZAK QUICK TURN
SMART 350**
Chuck Ø main spindle: 15"
Max. swing Ø: 720 mm
Max. processing Ø: 420 mm
Max. rod diameter: 102 mm
Main spindle
Distance between centres: 1,250 mm



CNC lathes

MAZAK NEXUS 200
Turning Ø: 4 mm - 320mm
Swing Ø: 520 mm
Distance between centres: 500 mm
Spindle opening: 65 mm



CNC lathes

MAZAK QUICK TURN 15
Turning Ø: 4 mm - 210mm
Swing Ø: 400 mm
Distance between centres: 400 mm
Spindle opening: 55 mm



Others



**Kasto fully automatic band saw
Twin A2**



**MEP fully automatic band saw
Shark 320**



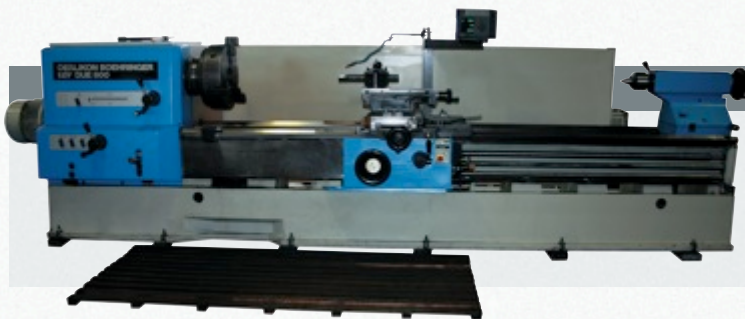
**Hahndorf
Keyseating machine**



**Elb
Surface grinding machine**



Conventional Lathes



Conventional Lathes

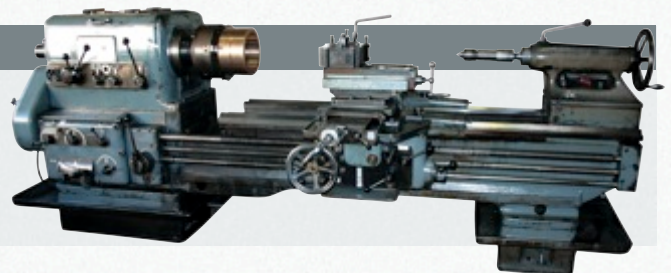
VDF Boehringer DUE 800

- Turning diameter of up to 800 mm
- Distance between centres 3,000 mm
- Spindle bore 128 mm

Conventional Lathes

VDF Boehringer V5K Centre Lathe

- Turning diameter: up to 680 mm
- Distance between centres: 1,500 mm
- Spindle bore: 80 mm



Conventional Lathes

VDF Hamburg 840 Centre Lathe

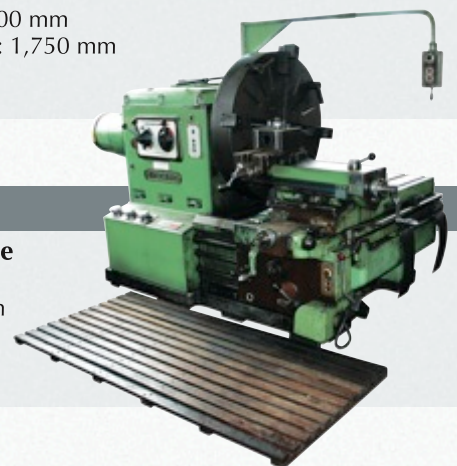
- Turning diameter: up to 800 mm
- Distance between centres: 1,750 mm
- Spindle bore: 130 mm



Conventional Lathes

Ravensburg Surfacing Lathe

- Faceplate diameter: 1,000 mm
- Swing diameter: 1,320 mm
- Turning length: 420 mm



Conventional Lathes

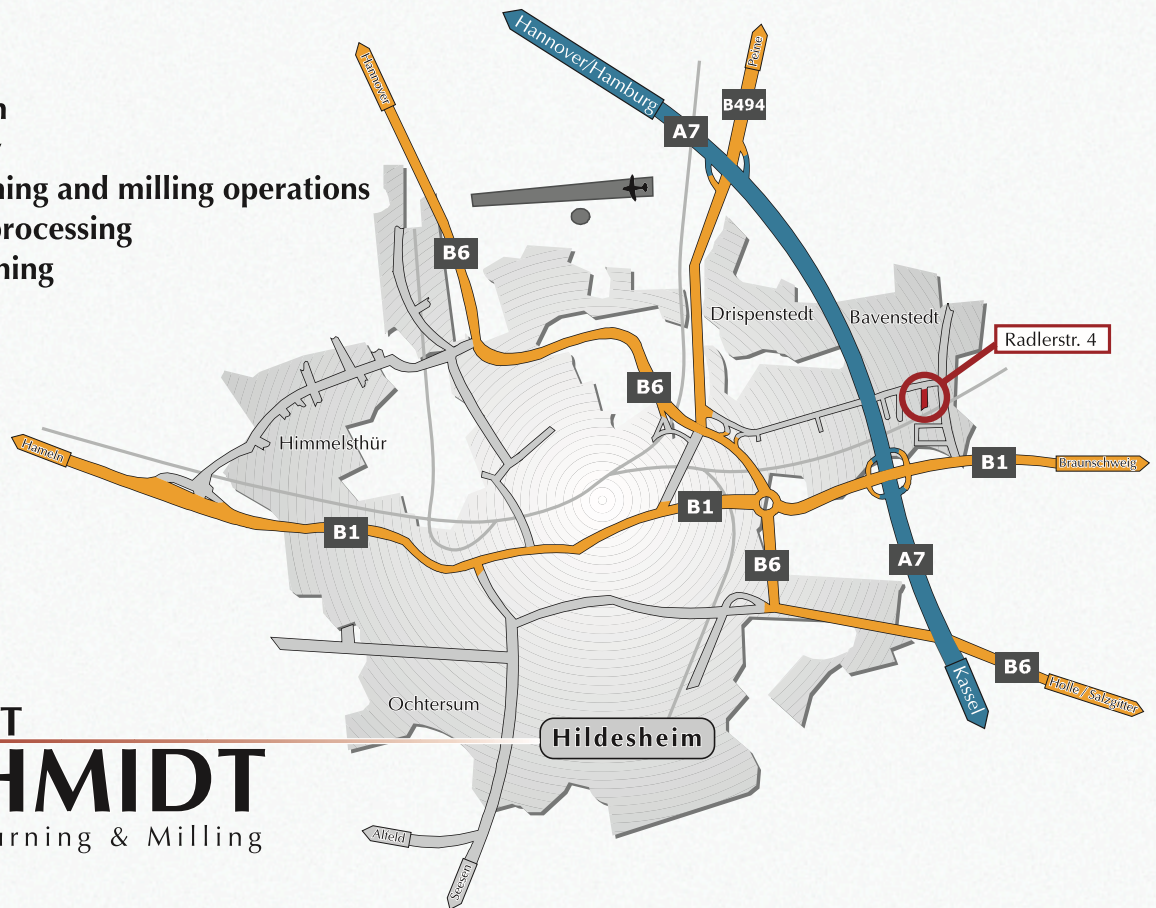


Misal Copying Lathe

- Turning diameter: up to 440 mm
- Distance between centres: 750 mm
- Spindle bore: 50 mm



- Design
- Planning
- Execution
- Assembly
- CNC turning and milling operations
- Manual processing
- Copy turning



HELMUT
SCHMIDT
CNC - Turning & Milling

Metallbearbeitung
Helmut Schmidt GmbH
Radlerstraße 4
31135 Hildesheim

Phone +49 (0) 51 81 / 46 394
Fax +49 (0) 51 81 / 46 353

www.cnc-schmidt.de
info@cnc.schmidt.de